

Application No. 10/649079
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Amendment
Attorney Docket No. S63.2Q-9072-US02

Amendments To The Claims:

Claims 1-29 (Canceled).

30. (Original) A medical device delivery system comprising:

a manifold having a rack and pinion, the rack slidable in a proximal direction;

an inner tube having a proximal end and a distal end, the inner tube extending distally from the manifold;

a retractable sheath disposed about the distal end of the inner tube; and

a pull-wire extending proximally from the retractable sheath to the manifold, the pull wire attached to the pinion.

31. (Original) The medical device delivery system of claim 30 wherein the rack is movable in a distal direction.

32. (Original) The medical device delivery system of claim 30 wherein the retractable sheath is retracted by moving the rack in the proximal direction.

33. (Original) The medical device delivery system of claim 30 wherein the retractable sheath is retracted by moving the rack in the distal direction

34. (Original) The medical device delivery system of claim 30 wherein the manifold comprises a first part and a second part, the first part movably received in the second part, the pinion disposed in the first part and the rack disposed in the second part.

35. (Original) The medical device delivery system of claim 30 further comprising a stent disposed about the inner tube and covered by the retractable sheath.

36. (Original) The medical device delivery system of claim 30 wherein the pinion comprises a gear portion and a spool portion for taking up the pull wire.

37. (Original) The medical device delivery system of claim 36 wherein the pull wire is wound around the spool portion when the rack is moved in a proximal direction.

38. (Original) The medical device delivery system of claim 30 wherein the pinion is movable in a proximal direction.

39. (Original) The medical device delivery system of claim 30 wherein the retractable sheath is retracted by moving the pinion in the proximal direction.

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Please add the following claims:

40. (New) The medical device delivery system of claim 30, the pinion comprising a gear portion and a shaft portion in rotational cooperation with the gear portion, wherein the pull-wire is attached to the shaft portion.

41. (New) The medical device delivery system of claim 40, wherein the shaft portion is spool-like and takes up the pull-wire when the gear portion rotates.